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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/11/2009

Bryan A. Santarelli GRAYBEAL JACKSON HALEY LLP Suite 350 155 - 108th Avenue NE

Bellevue, WA 98004-5901

EXAMINER
VASUDEVA, AJAY

PAPER NUMBER

3617 DATE MAILED: 06/11/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFERMATION NO.

 10/712,777
 11/12/2003
 Terrence W. Schmidt
 1934-7-3
 7411

TITLE OF INVENTION: MISSION MODULE SHIP DESIGN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence includir d below or directed oth ions.	or transmitting the ig the Patent, advan- nerwise in Block 1,	ISSU ice of by (a					tould be completed where correspondence address as rate "FEE ADDRESS" for
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Bryan A. Santa GRAYBEAL JA Suite 350	CKSON HALEY I			I he Stat addi tran	Cer reby certify that th es Postal Service w ressed to the Mail smitted to the USP	tificate is Fee(vith sul Stop TO (57	e of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the di	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
155 - 108th Ave Bellevue, WA 98								(Depositor's name)
, , , , , , , , , , , , , , , , , , , ,								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/712,777	11/12/2003	•		Terrence W. Schmidt	idt 1934-7-3			7411
TITLE OF INVENTION:					1			-
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE		PUBLICATION FEE DUE	PREV. PAID ISSU	S FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510		\$300	\$0		\$1810	09/11/2009
EXAMI	INER	ART UNIT		CLASS-SUBCLASS				
VASUDEV		3617		I14-258000				
"Fee Address" indi- PTO/SB/47; Rev 03-0. Number is required. 3. ASSIGNEE NAME AN	ordence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA cas an assignee is ident tin 37 CFR 3.11. Comp	nge of Corresponder "Indication form ed. Use of a Custon A TO BE PRINTED	ner ON :	2. For printing on the p (1) the asmes of up to or agents OR, alternati (2) the name of a sign prejistered attorney or 2 registered patent atto itsted, no name will be FHE PATENT (print or typ data will appear on the p 1 a substitute for filing an (B) RESIDENCE: (CITY	3 registered paten vely, e firm (having as a segent) and the nam rneys or agents. If printed. be) atent. If an assign assignment.	memb es of u no nan	er a 2p to be is 3	ocument has been filed for
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	SMALL ENTITY state	is. See 37 CFR 1.27.		b. Applicant is no lon				
interest as shown by the r	rubucation Fee (if req ecords of the United Sta	uired) will not be acc tes Patent and Trade	cepte mark	office.	ne applicant; a regi	stered :	attorney or agent; or th	e assignee or other party in
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75	90 06/11/2009		EXAMINER			
Bryan A. Santarelli			VASUDEVA, AJAY			
	KSON HALEY LLP	ART UNIT	PAPER NUMBER			
Suite 350 155 - 108th Avenu	ne NE	3617 DATE MAILED: 06/11/200	9			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/712,777 SCHMIDT ET AL. Notice of Allowability Examiner Art Unit Aiav Vasudeva 3617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the amendment filed 2/02/2009. 2. The allowed claim(s) is/are 51-64. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) \square All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date

(b) X including changes required by the attached Examiner's Amendment / Comment or in the Office action of

each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)
1. ☐ Notice of References Cited (PTO-892)

2. \square Notice of Draftperson's Patent Drawing Review (PTO-948)

3. Information Disclosure Statements (PTO/SB/08),

Paper No./Mail Date 20090605.

Paper No./Mail Date ______

4. Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. Notice of Informal Patent Application

 Interview Summary (PTO-413), Paper No./Mail Date

7. X Examiner's Amendment/Comment

8.

Examiner's Statement of Reasons for Allowance

9. 🔲 Other _____.

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EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kevin Jablonski on 6/04/2009.

The application has been amended as follows:

In the Specification (also see the Specification amendment filed 8/29/2005)

On page 1 (paragraph 0002)

payment of the issue fee.

On line 1, after "application is related to U.S. Patent App. Serial Nos. 10/712,987", -- , now
 US Patent No. 7.191.724. -- has been added.

On line 3, after "and 10/712,786", ---, now US Patent No. 7,231,880, -- has been added.

In the Claims

· Pending claims 3-8, 19-24, 28 and 31 have been canceled.

· New claims 51-64 have been added, as follows:

Claim 51: A water vessel comprising:

a hull comprising struts;

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a top deck coupled to the hull, the top deck supported above a surface of water by the struts:

a bay disposed below the top deck and enclosed by the top deck and the struts, the bay being accessible via an opening defined by the hull;

a mission module detachably coupled to the hull within the bay, the mission module containing specialized equipment for performing a specific mission and configured to be coupled with one or more operational systems of the vessel to allow the vessel to use the specialized equipment, wherein when the mission module is coupled with said one or more operational systems of the vessel, the vessel is enabled to use the specialized equipment of the mission module to perform the specific mission, and wherein when the mission module is not coupled with said one or more systems of the vessel, the vessel is not enabled to use the specialized equipment of the mission module to perform the specific mission:

wherein the struts define a cavity through which water that supports the hull is allowed to flow beneath the mission module when the mission module is coupled to the vessel: and

wherein the bay further includes:

an interface capable of releasably coupling the specialized equipment of the mission module with said one or more operational systems of the vessel; and a mounting structure releasably holding the mission module in the bay, wherein the mission module is spaced above the surface of the water when the mission module is coupled with the interface of the bay.

52. The vessel of claim 51 wherein the interface is capable of facilitating the exchange

of fuel between said one or more operational systems of the vessel and the mission

module.

53. The vessel of claim 51 wherein the interface is capable of facilitating the exchange

of water between said one or more operational systems of the vessel and the mission

module.

54. The vessel of claim 51 wherein the interface is capable of facilitating the exchange

of personnel between said one or more operational systems of the vessel and the

mission module.

55. The vessel of claim 51 wherein the interface is capable of facilitating the exchange

of electrical power between said one or more operational systems of the vessel and the

mission module.

56. The vessel of claim 51 wherein the interface is capable of facilitating transmission

of electronic communication signals between said one or more operational systems of

the vessel and the mission module.

57. The vessel of claim 51 further comprises a foil-assisted hull.

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- 58 The vessel of claim 51 wherein the mission module is configured for a single mission.
- 59. The vessel of claim 51 wherein the specialized equipment of the mission module is configured for performing one of the following missions: a mine hunting mission, an anti-submarine mission, a special operation mission, and an intelligence/surveillance/reconnaissance mission.
- 60. The vessel of claim 51 wherein the mission module contains all the specialized equipment for performing a specific mission.
- 61. The vessel of claim 51 wherein the mission module includes at least one of a weapons turret and an antenna, each mounted to the module's structure and exposed for use while the module is releasably held in the bay of the vessel.
- 62. The vessel of claim 51 further comprising a ramp capable of supporting the mission module as the module is moved into the bay.
- 63. The vessel of claim 51 wherein the vessel comprises a sailing ship.
- 64. The vessel of claim 51 further comprises a multihull.

The drawings are objected to for the following reasons. Applicant is requested to make the recommended changes, as follows:

In the drawings (filed 1/25/2006 and 2/02/2009), figures 1-4 are not oriented in the same direction as figures 5a-5d. Therefore, Applicant is requested to file new formal drawing in which all figures are oriented in the same direction. Further, applicant is also requested to ensure that all reference numbers have uniform thickness and size. No new matter is permitted.

Note: Figures 3C and 3D (as shown in the drawings filed 1/25/2006) will be printed together on the front page of the published patent.

In order to avoid abandonment of the application, applicant must make these above requested drawing changes.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajay Vasudeva whose telephone number is (571) 272-6689. The examiner can normally be reached on Monday-Friday 12:00 – 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joe Morano can be reached on (571) 272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ajay Vasudeva/ Primary Examiner Art Unit 3617